

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A channel structuring method [[of]] performed by a base station of a communication system configuring channels wherein transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, said method comprising:

providing, at the base station, time frames by segmenting a communication channel of said n sub-carriers at every predetermined interval;

selecting, at the base station, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and common pilot signals; and

inserting, at the base station, a common control channel signal and a common pilot signal into the time frames by time division multiplexing with respect to the selected sub-carriers while ensuring that at least one of the selected sub-carriers selected from the n sub-carriers used for the frequency division multiplexing has both a common control channel signal and a common pilot signal inserted therein.

Claim 2 (Previously Presented): A channel structuring method as claimed in claim 1, wherein:

the common control channel signal and the common pilot signal are inserted periodically into every time frame of said selected sub-carriers.

Claim 3 (Previously Presented): A channel structuring method as claimed in claim 2, wherein, in regard to the common control channel signal and the common pilot signal periodically inserted into every time frame of said selected sub-carriers, either the common

control channel signal or the common pilot signal, or both thereof, is/are inserted at the same timing as either the common control channel signal or the common pilot signal, or both thereof of other sub-carriers.

Claim 4 (Previously Presented): A channel structuring method as claimed in claim 1, wherein

the common control channel signal is inserted continuously into the time frame of said selected sub-carriers, and the common pilot signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 5 (Previously Presented): A channel structuring method as claimed in claim 1, wherein

the common pilot signal is inserted continuously into the time frame of said selected sub-carrier, and the common control channel signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 6 (Canceled).

Claim 7 (Previously Presented): A channel structuring method as claimed in claim 1, wherein

the common control channel signal is inserted continuously into the time frame of said selected sub-carriers, and the common pilot signal is inserted continuously into the time frame of said selected sub-carriers.

Claim 8 (Currently Amended): A base station in which transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, comprising:

a common channel signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and inserting a common control channel signal into the selected sub-carriers, and

a pilot signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common pilot signal and inserting a common pilot signals into the selected sub-carriers, wherein time frames are provided by segmenting a communication channel of said n subcarriers at every predetermined interval, and a common control channel signal and a common pilot signal are inserted into the time frames by time division multiplexing with respect to at least one of the selected sub-carriers while ensuring that at least one of the selected sub-carriers selected from the n sub-carriers used for the frequency division multiplexing has both a common control channel signal and a common pilot signal inserted therein.

Claim 9 (Previously Presented): A base station as claimed in claim 8, wherein the common control channel signal and the common pilot signal are inserted periodically into every time frame of said selected sub-carriers.

Claim 10 (Previously Presented): A base station as claimed in claim 8, wherein said common pilot signal insertion unit selects a predetermined number of sub-carriers from said n sub-carriers, and inserts the common pilot signal periodically into every time frame of said selected sub-carriers.

Claim 11 (Previously Presented): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of sub-carriers from said n sub-carriers and inserting the common pilot periodically into every time frame of said selected sub-carriers, and

said common control channel signal insertion unit and said common pilot signal insertion unit insert the common control channel signal and the common pilot signal, respectively, into said selected sub-carriers such that a timing of the insertion of either the common control channel signal or the common pilot signal, or both, are same as the timing of either the common control channel signal or the common pilot signal, or both, of other sub-carriers.

Claim 12 (Previously Presented): A base station as claimed in claim 8, wherein
the common control channel signal is inserted continuously into every time frame of said selected sub-carriers, and

the common pilot signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 13 (Previously Presented): A base station as claimed in claim 8, wherein
the common pilot signal is inserted continuously into every time frame of said selected sub-carriers, and

the common control channel signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 14 (Canceled).

Claim 15 (Previously Presented): A base station as claimed in claim 8, wherein
the common control channel signal is inserted continuously into every time frame of
said selected sub-carriers, and
the common pilot signal is inserted continuously into every time frame of said
selected sub-carriers.

Claim 16 (Canceled).

Claim 17 (Previously Presented): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of sub-
carriers from said n sub-carriers, and inserts the common pilot signal periodically into every
time frame of said selected sub-carriers.

Claim 18 (Canceled).